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NOTICE OF ALLOWANCE AND FEE(S) DUE

29683

7590

03/16/2010

HARRINGTON & SMITH 4 RESEARCH DRIVE, Suite 202 SHELTON, CT 06484-6212 EXAMINER

BRANDT, CHRISTOPHER M

ART UNIT PAPER NUMBER

2617 DATE MAILED: 03/16/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,404	10/22/2004	Tsuyoshi Kashima	885A.0002.U1(US)	4456

TITLE OF INVENTION: NODE SELECTING METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

maintenance fee notifica			N	ote: A certificate of 1	nailing can only be used f	or domestic mailings of the
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29683	7590 03/16	/2010	116		ificate of Mailing or Tran	emiccion
HARRINGTON & SMITH 4 RESEARCH DRIVE, Suite 202 SHELTON, CT 06484-6212			I Si ac tr	hereby certify that thi	s Fee(s) Transmittal is bein	g deposited with the United est class mail in an envelope above, or being facsimile date indicated below.
			Γ			(Depositor's name)
						(Signature)
						(Date)
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/16/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
BRANDT, CHE	RISTOPHER M	2617	455-443000			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required. 			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to			
recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	data will appear on the T a substitute for filing a (B) RESIDENCE: (CI	patent. If an assigne in assignment. TY and STATE OR Co	OUNTRY)	document has been filed for
Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	┛ Individual Co	rporation or other private gr	roup entity Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).			
	s SMALL ENTITY statu	is. See 37 CFR 1.27.			L ENTITY status. See 37 C	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if requecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other that Office.	n the applicant; a regis	tered attorney or agent; or t	he assignee or other party in
Authorized Signature			Date			
Typed or printed name			Registration No.			
an application Confident	tiality is governed by 35 application form to the tons for reducing this but irginia 22313-1450. DC	LLS C 122 and 37 CFR	1.14 This collection is	estimated to take 12 n	ninutes to complete, includi	d by the USPTO to process) ng gathering, preparing, and ime you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,

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HARRINGTON	& SMITH	BRANDT, CHRISTOPHER M			
4 RESEARCH DR		ART UNIT	PAPER NUMBER		
SHELTON, CT 06	484-6212		2617		
			DATE MAILED: 03/16/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 431 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 431 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/500,404	KASHIMA, TSUYOSHI				
Notice of Allowability	Examiner	Art Unit				
	CHRISTOPHER M. BRANDT	2617				
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	pears on the cover sheet with the S (OR REMAINS) CLOSED in this a portion or other appropriate communication of the subject 3 and MPEP 1308.	correspondence address pplication. If not included on will be mailed in due course. THIS to withdrawal from issue at the initiative				
1. This communication is responsive to <u>applicant's amendm</u>	ent/arguments submitted on Januar	<u>ry 8, 2010</u> .				
2. ☑ The allowed claim(s) is/are <u>1-10,13-16 and 18</u> .						
 3. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	re been received. re been received in Application No.					
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ist be submitted.					
(a) I including changes required by the Notice of Draftsper	son's Patent Drawing Review(PT0	O-948) attached				
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	_•					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in						
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 						
Attachment(s)						
1. Notice of References Cited (PTO-892)	5. Notice of Informal					
 Notice of Draftperson's Patent Drawing Review (PTO-948) 	Paper No./Mail D	ate				
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🛛 Examiner's Amen	dment/Comment				
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stater	nent of Reasons for Allowance				
	9. 🗌 Other					
/Christopher M Brandt/	/George Eng/					
Examiner, Art Unit 2617	Supervisory Patent E	xaminer, Art Unit 2617				

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Walter J. Malinowski (Reg. No. 43,423) on March 12, 2010. This amendment was authorized by Mr. Malinowski based on In re Bilski.

The application has been amended as follows:

1. (CURRENTLY AMENDED) A method comprising:

specifying, by a processor, nodes present within a communication zone of a mobile node;

counting a number of overlaps between the communication zone of the mobile node and communication zones for each of the specified nodes; and

selecting, as a candidate node for next communication with the mobile node, the specified node for which a largest number of overlaps has been counted, where the selection of the candidate node occurs without using a received signal strength indicator.

2. (CURRENTLY AMENDED) A method comprising:

specifying, by a processor, neighbor nodes present within a communication zone of a mobile node;

specifying neighbor nodes for each specified neighbor node of the mobile node that are present within a communication zone of a corresponding one of the specified neighbor nodes of the mobile node;

counting a number of overlaps between communication zones that are within the communication zone of the corresponding one of the specified neighbor nodes of the mobile node for each of the specified nodes; and

selecting, as a candidate node for next communication with the mobile node, the specified neighbor node of the mobile node having a largest number of overlaps has been counted, where the selection of the candidate node occurs without using a received signal strength indicator.

Reasons for Allowance

Claims 1-10, 13-16, and 18 are allowed.

The following is an examiner's statement of reasons for allowance:

Applicant's invention is drawn to a method and an apparatus in order to select a candidate node for communication with a mobile node. Specifically, applicant's invention includes specifying, by a processor, nodes present within a communication zone of a mobile node, counting a number of overlaps between the communication zone of the mobile node and communication zones for each of the specified nodes, and selecting, as a candidate node for next communication with the mobile node, the specified node for which a largest number of overlaps has been counted, where the selection of the candidate node occurs without using a received signal strength indicator.

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Art Unit: 2617

Applicant's independent claims 1, 2, and 15 each recite, inter alia, counting a number of

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overlaps between the communication zone of the mobile node and communication zones for

each of the specified nodes, and selecting, as a candidate node for next communication with the

mobile node, the specified node for which a largest number of overlaps has been counted, where

the selection of the candidate node occurs without using a received signal strength indicator.

Chheda is concerned with the optimization of neighbor sets during soft hand-off of mobile units

(title, abstract). However, Chheda and a thorough search do not disclose the counting of

overlaps and selection of a candidate node based on the largest number of overlaps that are

counted. Therefore, applicant's claims 1, 2, and 15 comprise a particular combination of

elements, which is neither taught nor suggest by the prior art.

Accordingly, applicant's invention is allowed for these reasons and applicant's

amendments and arguments.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

Any response to this Office Action should be faxed to (571) 273-8300 or mailed to:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Brandt whose telephone number is (571) 270-1098. The examiner can normally be reached on 7:30a.m. to 5p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

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Art Unit: 2617

/Christopher M Brandt/

Examiner, Art Unit 2617

March 12, 2010

/George Eng/

Supervisory Patent Examiner, Art Unit 2617